

Antenna Test Report

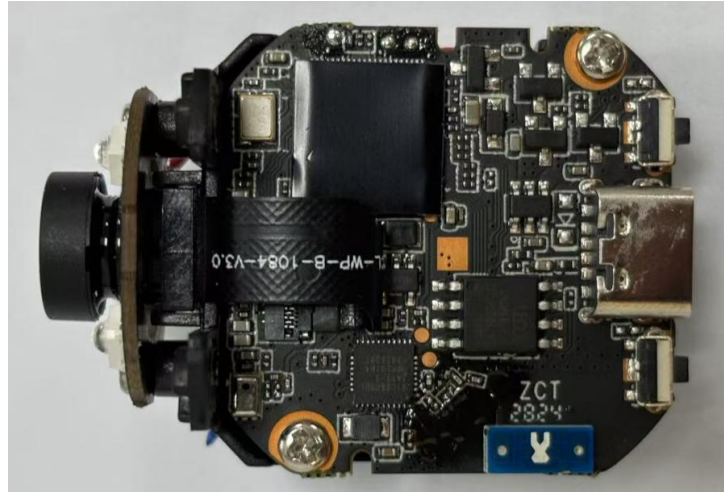
MA5 V1.0

Customer	维拍
Agent	梦想
Project name	MA5
Model. IC	--
Model. ANT	WAN097030JD251SN03

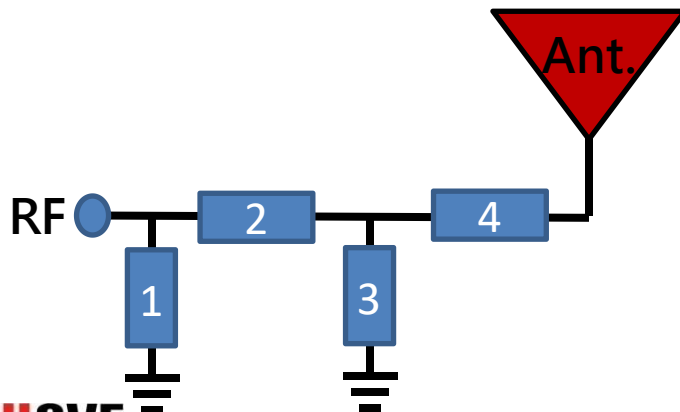
2024/11/13

Ant. Matching

- Antenna Placement



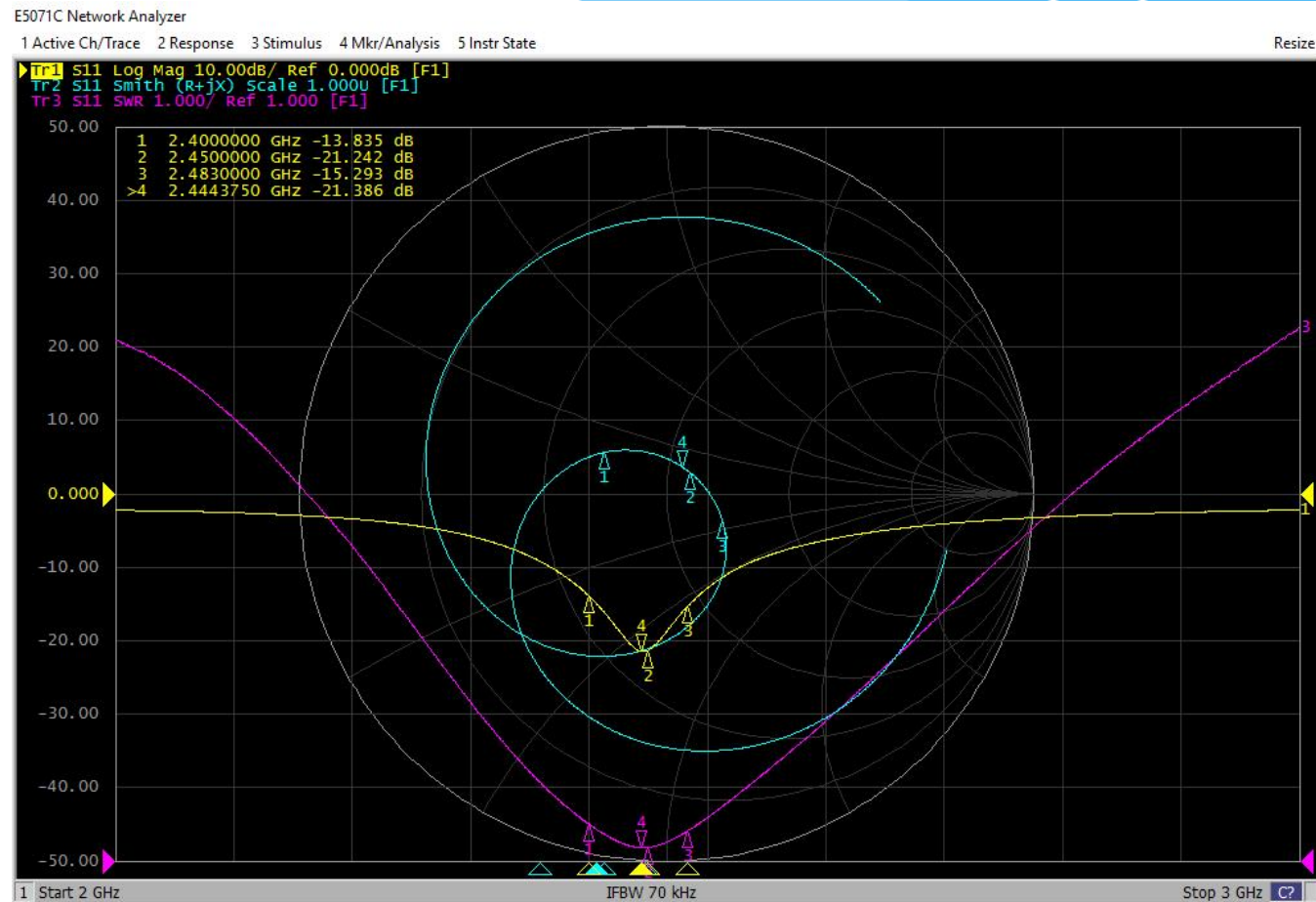
- Matching Circuit



天线净空区 :--mm

	LC	P/N
Ant.	WAN097030JD251SN03	
1	NC	--
2	10pF	Murata
3	1.8nH	Murata
4	5.0pF	Murata

Ant. S11 Parameter



Fre.(MHz)	2400	2450	2483
S11(dB)	-13	-21	-15

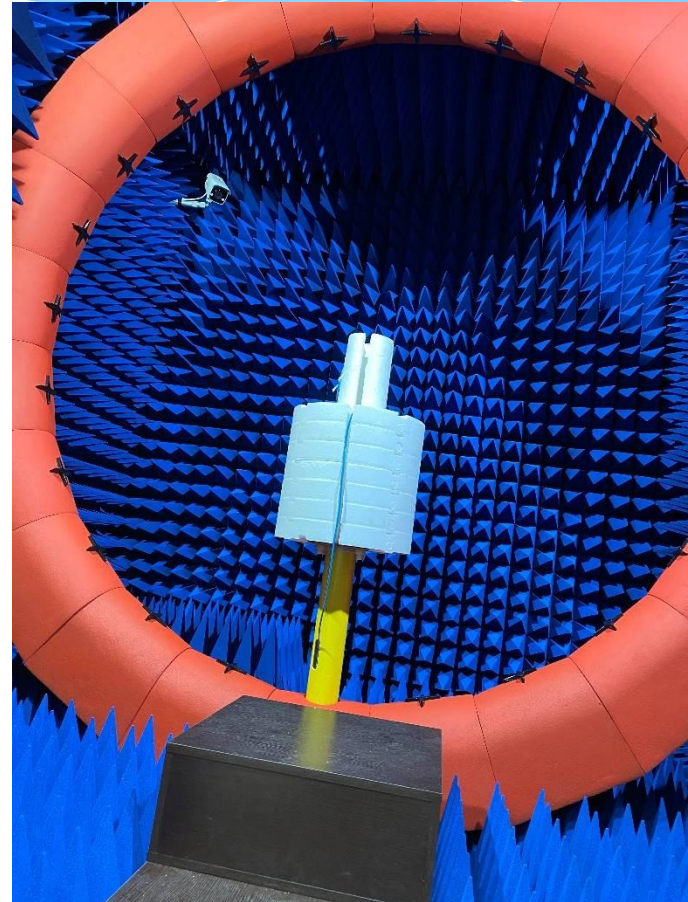
Equipment of OTA test



網路分析儀 E5071C



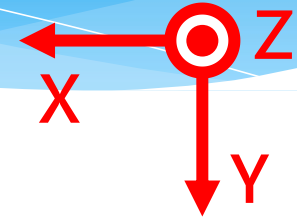
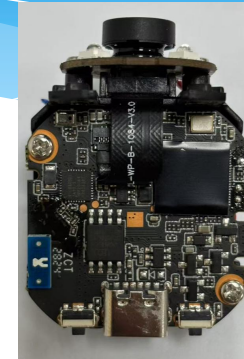
綜合測試儀 CMW500



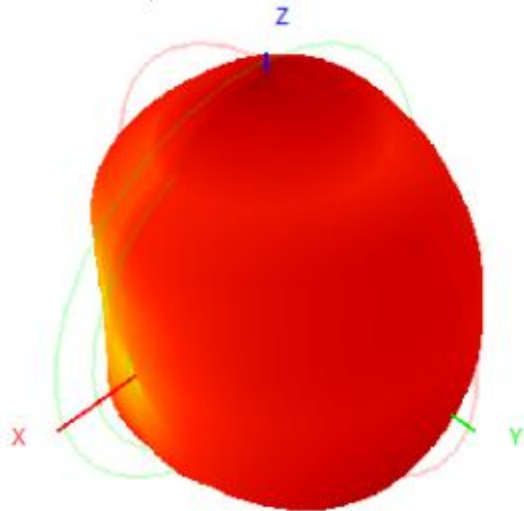
微波暗室 FTM-24D多探頭

Ant. Gain Pattern @2.4GHz

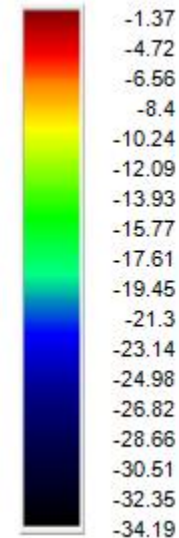
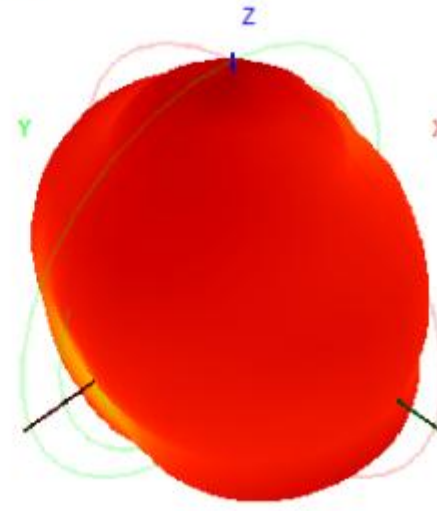
- Passive Test (free space)



2450.0MHz H+V, Eff: 23.6%



Back View



Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-2.25	-2.61	-2.07	-1.65	-1.46	-1.37	-1.49	-1.50	-1.51	-1.63	-1.84
Efficiency (%)	21.92	22.60	22.97	21.47	22.66	23.62	24.03	24.22	24.04	23.37	22.19

Ant. Gain Pattern @2.4G

- Active Test (free space)

原参数-B60#

2.4G	channel	TRP(dBm)	TIS(dBm)
WiFi b-11M HT 20M	1	8.47	-75.90
	6	8.00	-72.03
	11	7.85	-78.15

原参数-B61#

2.4G	channel	TRP(dBm)	TIS(dBm)
WiFi b-11M HT 20M	1	7.95	-75.47
	6	7.60	-73.59
	11	7.58	-78.09

新参数-B61#

2.4G	channel	TRP(dBm)	TIS(dBm)
WiFi b-11M HT 20M	1	10.02	-84.11
	6	10.40	-77.86
	11	11.08	-85.67

注：B60调试时有拆卸芯片，
重新焊回无法测试

结论

- 待客户验证参数反馈